

Saugus River Drawbridge

Rail Bridge | 2011

**CLIENT**

Diversified Technology Consultants, Inc.

LOCATION

Lynn, MA, United States

INDUSTRY

Transportation

SERVICE

Structural Dynamic Analysis; Continuous Monitoring

IMPACT

Helped calibrate the bridge engineer's model and identified movement at the western pier for follow-up during later construction.

CHALLENGE

The rail drawbridge required a measured reference condition while adjacent construction proceeded and pier movement was under review.

STRAAM APPROACH

STRAAM measured dynamic response and tilt and worked with Hardesty & Hanover to correlate a finite-element model. The reviewed monitoring period was September 15–October 24, 2011.

RESULT

The work established a reference for the drawbridge and documented movement at its western pier. The observations supported calibration of the engineer's model.